

Figure 1
X-Ray Crystal Structure of 1,4 -Bis(4-Pyridyl)Butadiyne)

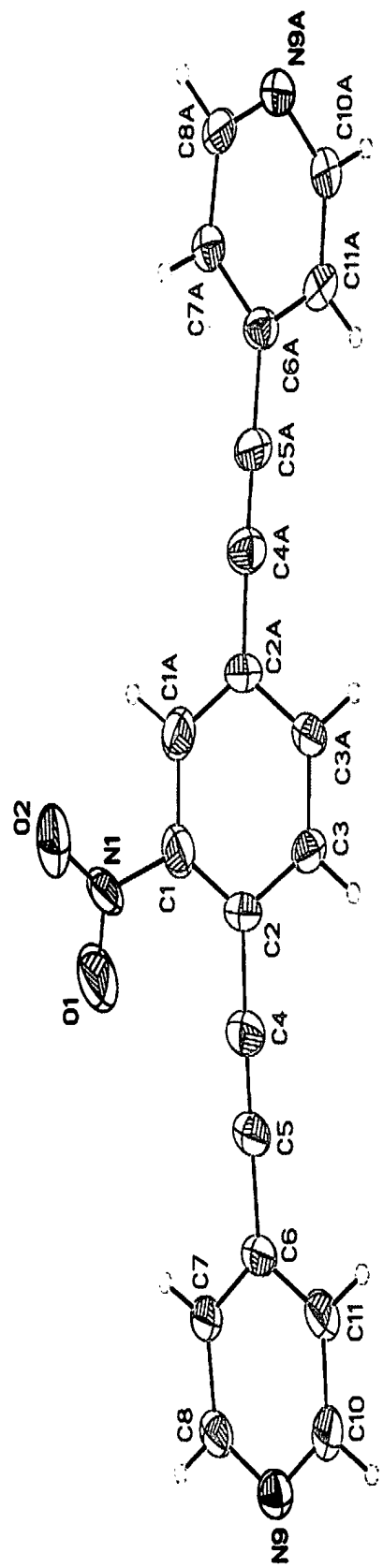


Figure 2
X-Ray Crystal Structure of 4-Ethynylphenyl(Pyridine)-4'-Ethynylphenyl-5'-Nitro-1Pyridine

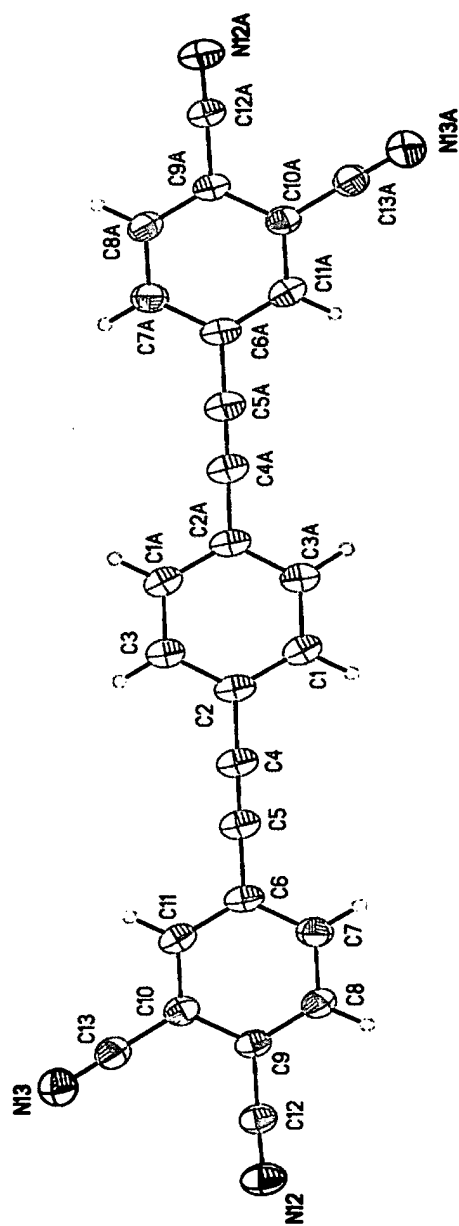


Figure 3

X-Ray Crystal Structure of 4-Ethynyl (1, 2 - dicyanobenzene) -4'-Ethynylphenyl -1(4, 5 - dicyanobenzene)

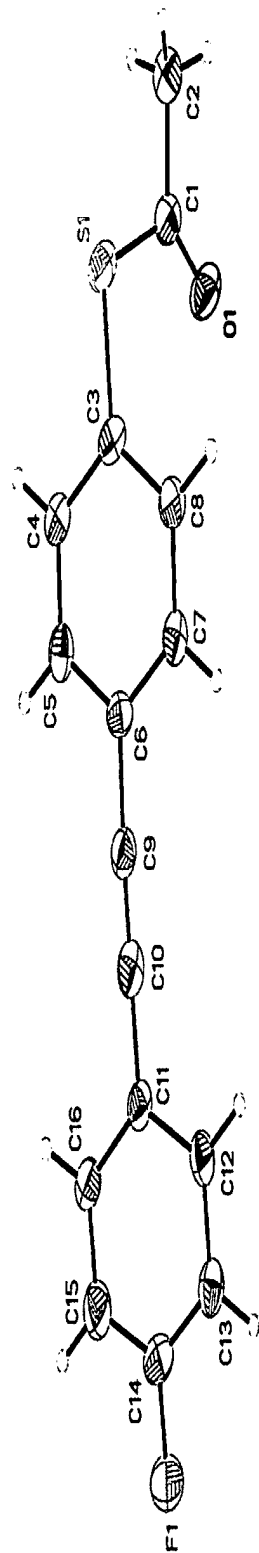


Figure 4
X-Ray Crystal Structure of 1-Thioacetyl-4(4'-Fluoro-1'-(Ethynyl)Phenyl)Benzene

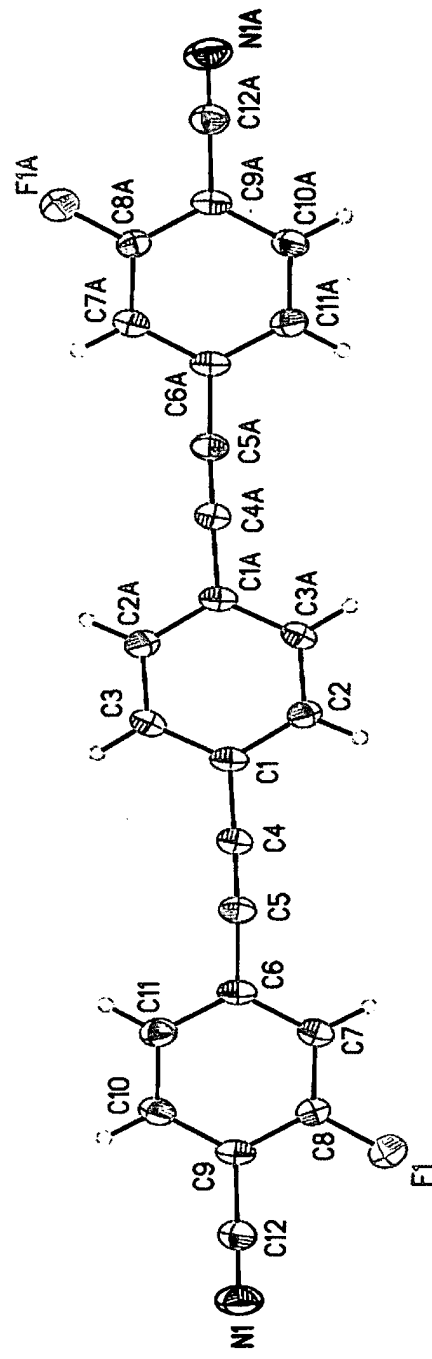


Figure 5
X-Ray Crystal Structure of 4-Ethynyl(2-Fluoro-Cyanobenzene)- 4'-Ethynylphenyl-1(2-Fluoro-Cyanobenzene)

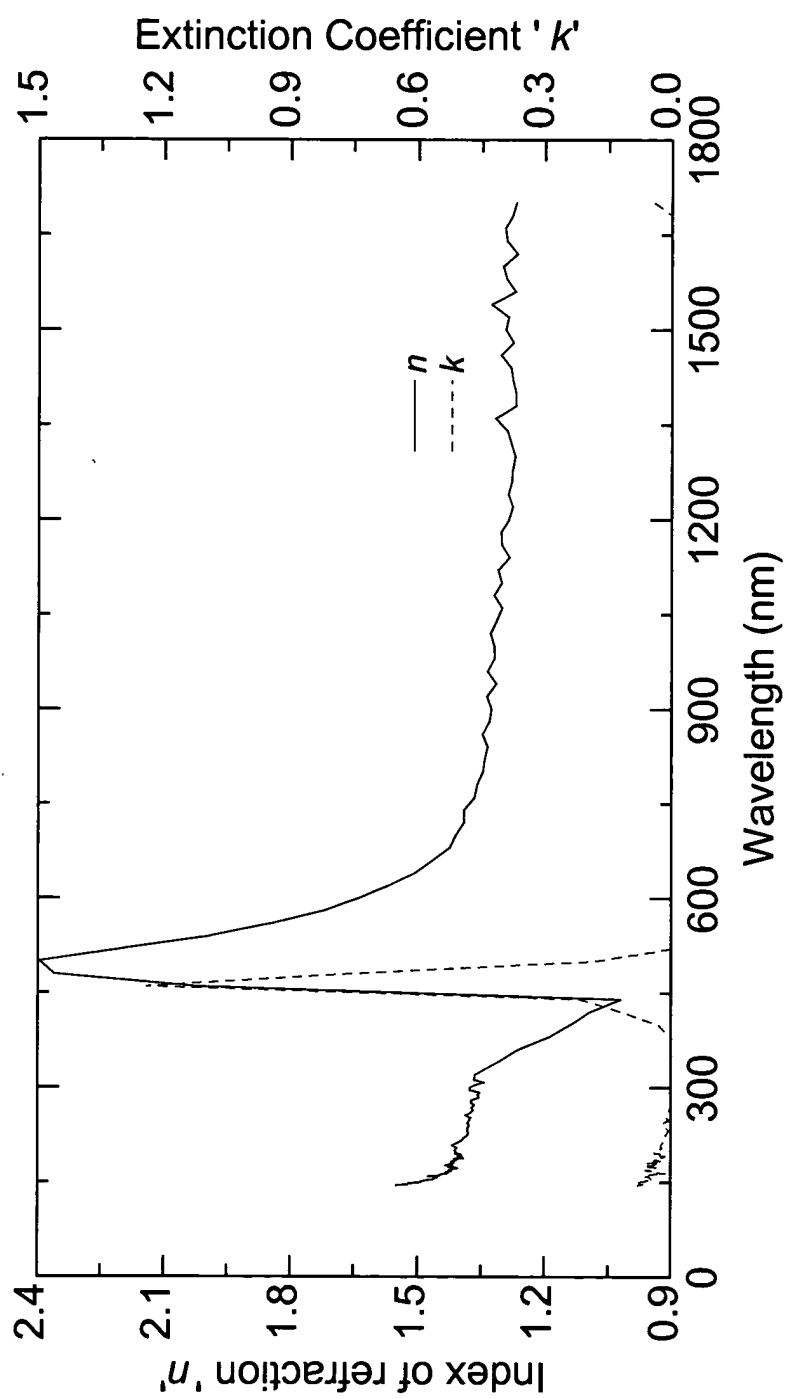


Figure 6

Index of refraction (n) and the extinction coefficient (k) versus wavelength λ in units of nanometers for the self assembled molecules of Example 9, PETB.

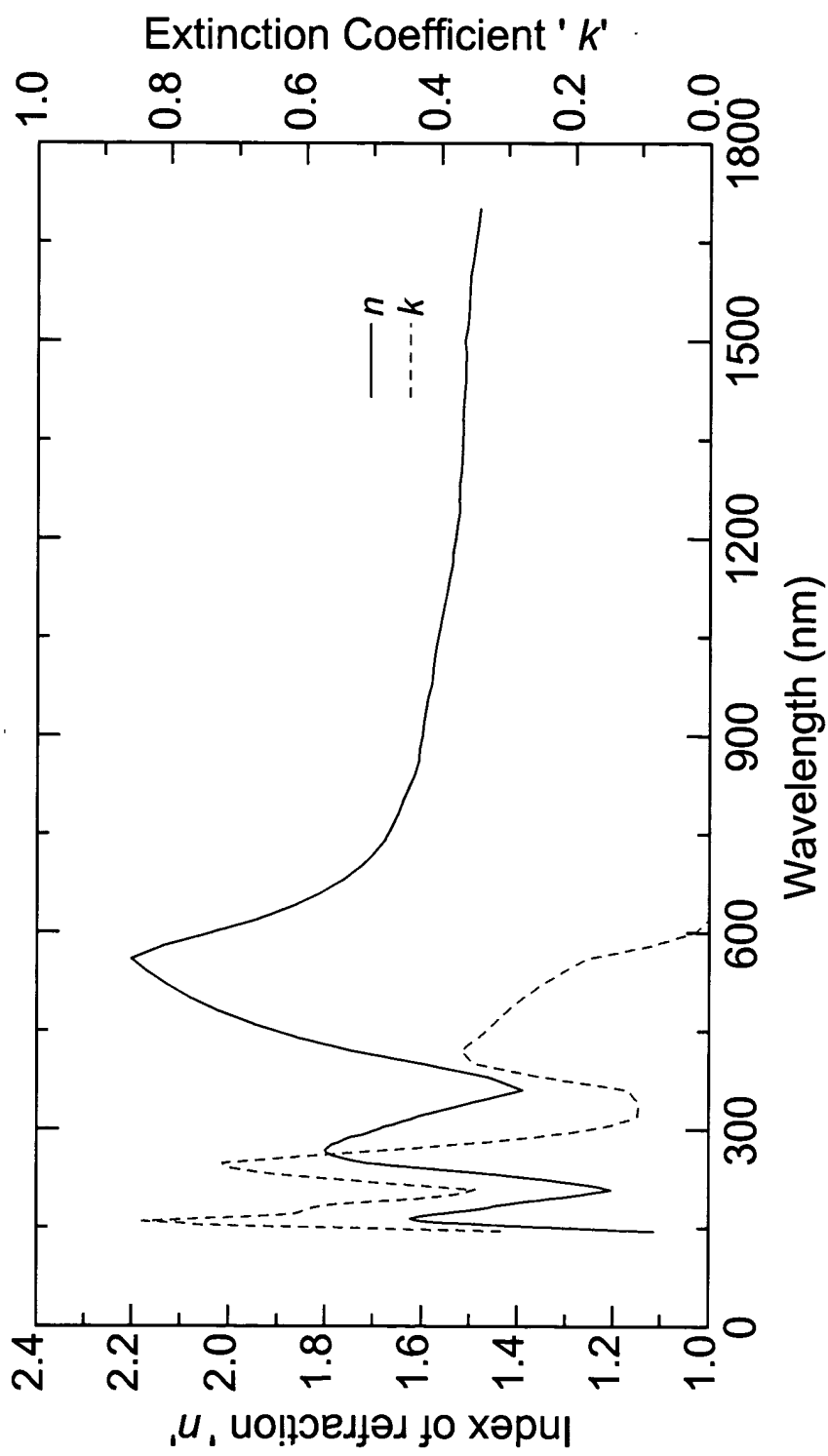


Figure 7

Index of refraction (n) and the extinction coefficient (k) versus wavelength lambda (λ) in units of nanometers for the self assembled molecules of Example 10, pF-PETB.

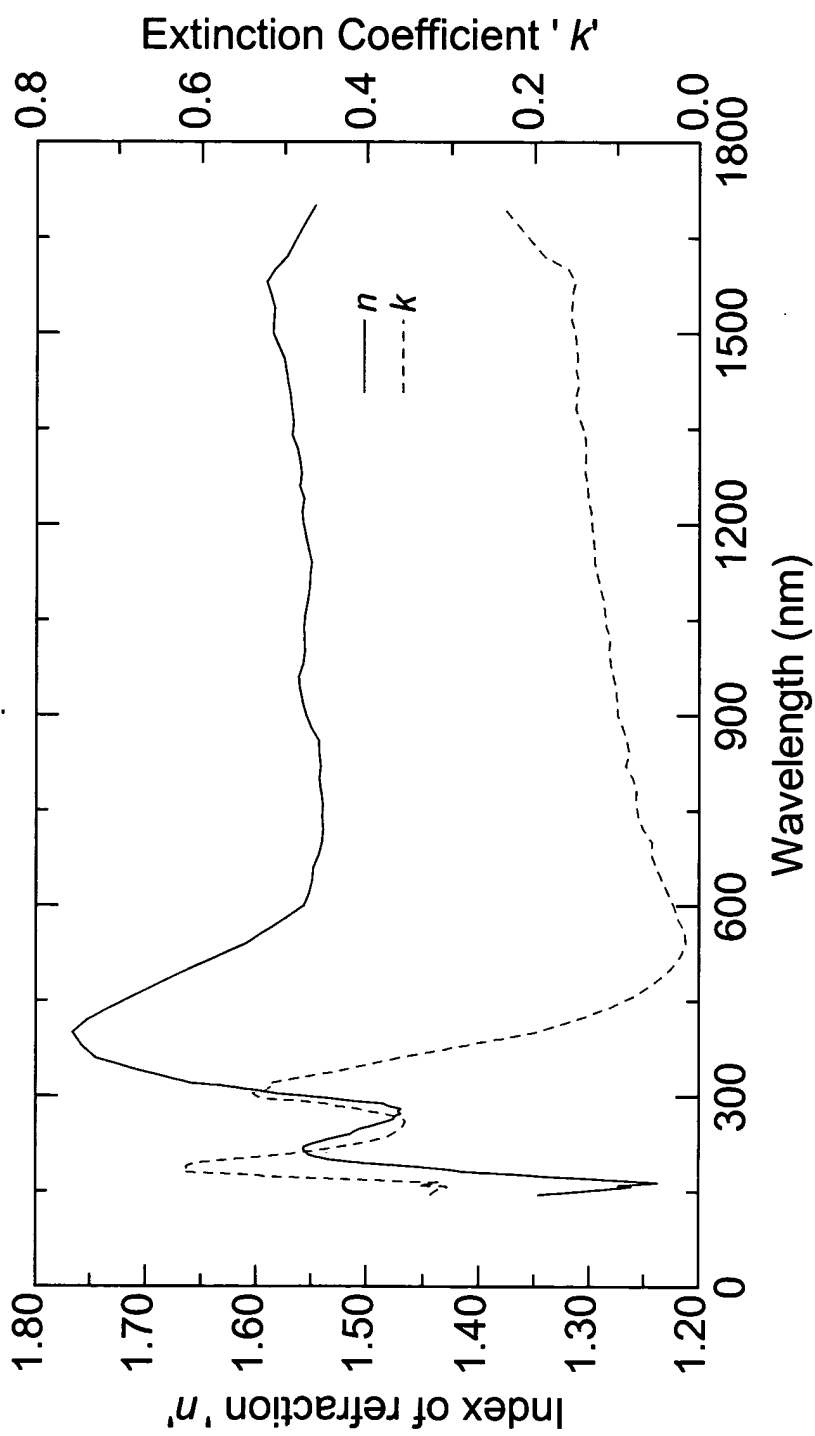


Figure 8

Index of refraction (n) and the extinction coefficient (k) versus wavelength λ in units of nanometers for the self assembled molecules of Example 11, 3N-PETB.

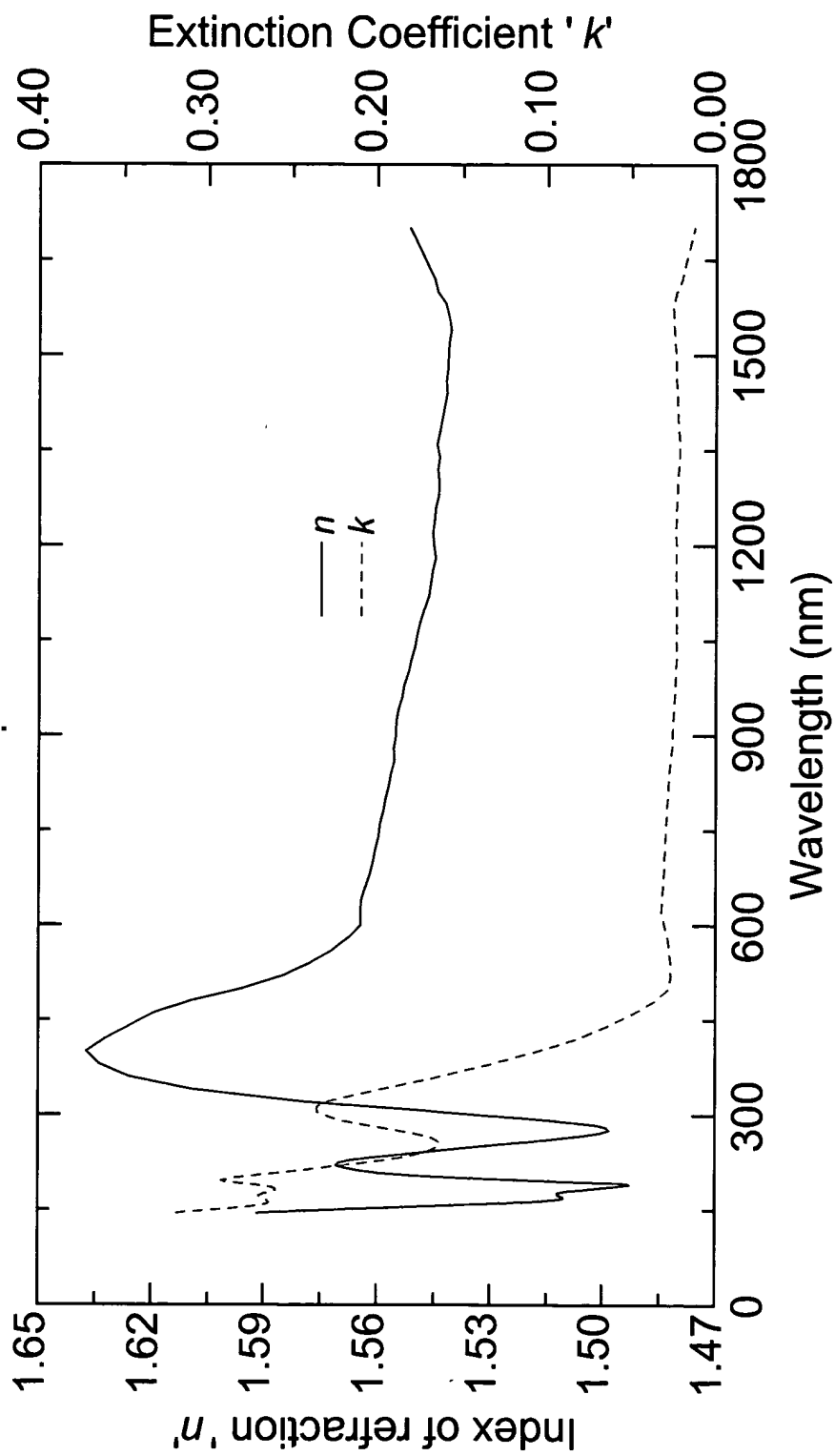


Figure 9

Index of refraction (n) and the extinction coefficient (k) versus wavelength λ in units of nanometers for the self assembled molecules of Example 12, 3-PETB.

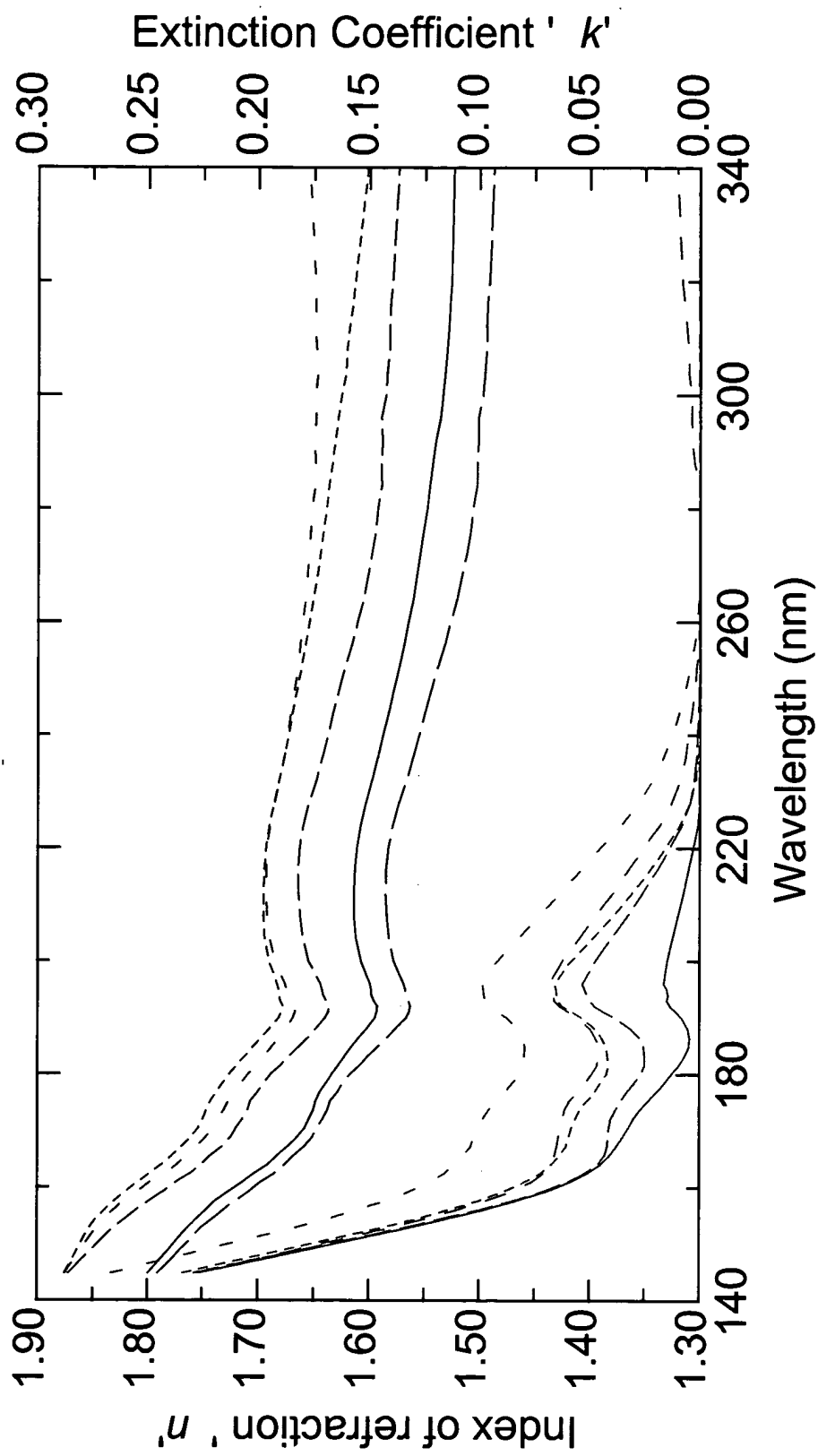


Figure 10

Index of refraction (n) and the extinction coefficient (k) versus wavelength λ in units of nanometers the self assembled molecules of Example 13, 2F2CN3B.

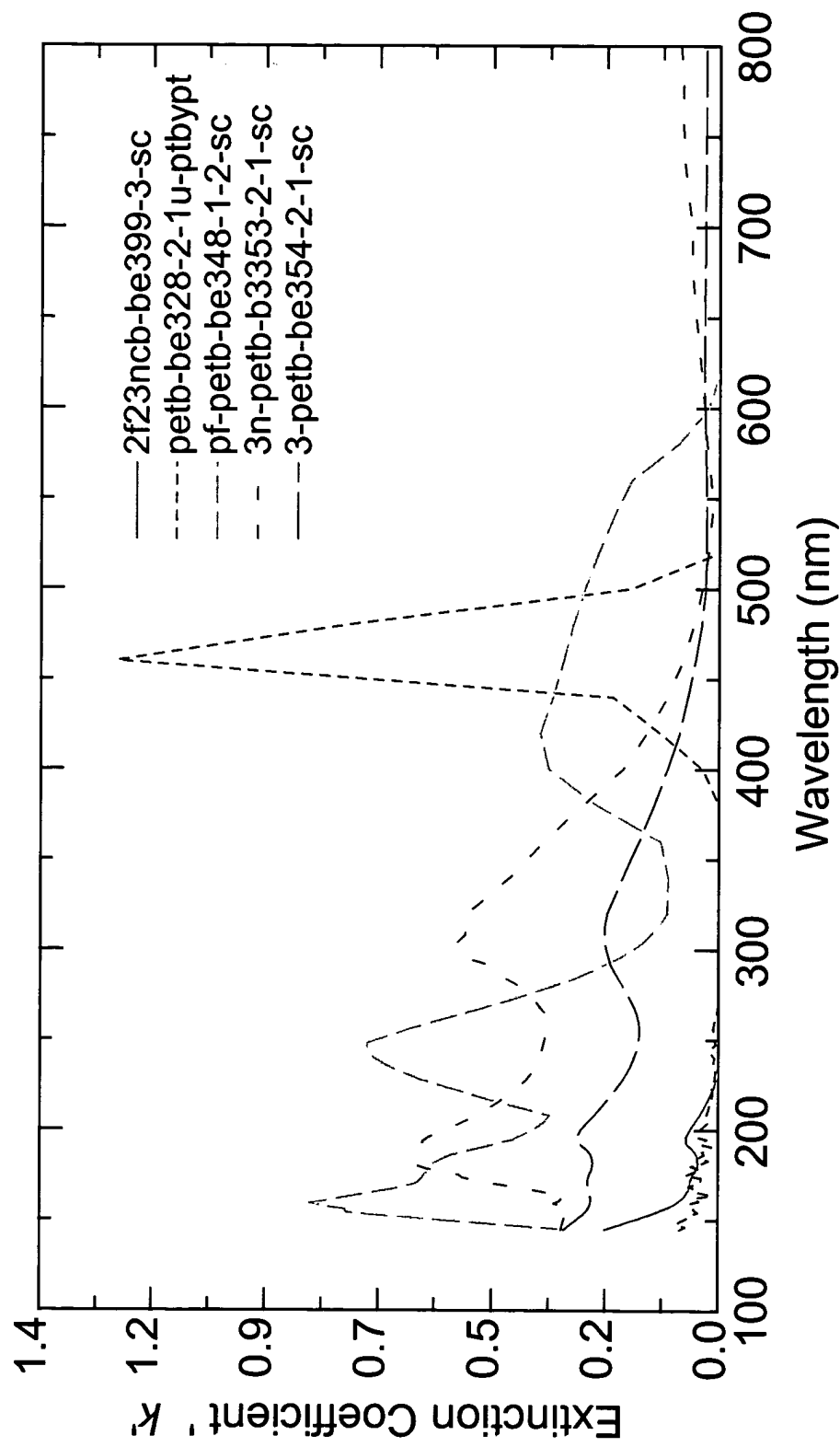


Figure 11

Index of refraction (n) and the extinction coefficient (k) versus wavelength λ in units of nanometers for the self assembled molecules of examples 9, PETB, 10, Pf-PETB, 11, 3N-PETB, 12, 3-PRTB and 13, 2F2CN3B.